

880 FIRE AND OTHER ALARM SYSTEMS

This basic category includes separate integral signal systems such as fire alarm, watch reporting, and security. Telephone reporting systems are planned with telephone systems (see Code 130).

880 10 FIRE ALARM SYSTEM (BX)

Fire alarm systems are of two general types: exterior systems and interior systems. Exterior systems normally have alarm initiating devices outside buildings, but may have components within buildings. Interior systems service a single building or group of buildings and may be connected to an exterior system.

Exterior Fire Reporting Facilities.

Exterior fire reporting systems of either telegraphic radio or supervised telephonic types are authorized for installation in built-up areas at military installations. The type of system selected for use shall be established on the basis of dependability, initial cost, and ability to maintain the system in operating condition. Extension of fire reporting systems will require consideration of compatibility with existing equipment. Fire reporting facilities will not normally be provided at isolated small areas, ammunition and ordnance storage, and similar restricted areas where personnel are not generally present to detect fires.

Interior Fire Reporting Facilities.

Automatic Fire Alarm Systems. Automatic fire detection and alarm systems are authorized for installation in:

1. Buildings, for protection of life, or in isolated and/or important facilities where automatic sprinkler protection would normally be provided but is not economically or technically feasible.
2. Combustible buildings used for the confinement of military prisoners where automatic sprinklers, normally provided, cannot be made available.
3. Combustible buildings of hospital groups and specific areas of noncombustible buildings of hospital groups, where automatic sprinklers are not provided.
4. One and two-story combustible dormitory-type living quarters, including bachelor officers' quarters, guesthouses, nurses' quarters, civilian dormitories, and similar buildings used for sleeping purposes.

Manual Fire Alarm Systems. Manual fire and evacuation alarms are authorized for installation in:

1. Barracks, dormitories, bachelor officers' quarters and similar sleeping quarters, involving 20 or more persons not otherwise provided with automatic fire detection alarms.

2. Combustible buildings used for confinement of military prisoners, not otherwise provided with automatic sprinkler or automatic fire detection systems.

3. Buildings involving personnel occupancy such as administration, clubs, schools, classrooms, hospitals, laboratories, industrial and similar structures. Normally, such buildings having an occupancy of 20 or more persons will be provided with this type of alarm system.

See NAVFAC DM-8, Fire Protection Engineering, for technical design information.

880 20 WATCH REPORTING SYSTEM (BX)

A watch reporting system provides a method for the non-automatic detection of fire and for security protection throughout designated areas, buildings, and structures. The watch reporting system provides local alarms and central station alarms to building occupants and to station security and firefighting personnel. Watch reporting systems are planned on the basis of engineering surveys to determine the degree of fire protection and security required. See NAVFAC DM-4, Electrical Engineering, for technical design information.

880 30 AIR RAID ALARM SYSTEMS (EA)

Air raid alarm systems shall be planned for all Navy installations and shall be complete and self-operational. The system shall be coordinated with local civil defense authorities, and follow their directives. Horns of high-power type shall be used as signal devices. Their locations shall be coordinated with structures and buildings, to spread audible signals evenly and with enough intensity to be heard over a whole area or activity.

880 40 AIR CRASH/ALERT (EA)

No planning criteria are currently available.